GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA

UNSTARRED QUESTION NO:3524
ANSWERED ON:07.08.2002
SEEDS DEVELOPED BY NUCLEAR POWER CORPORATION OF INDIA
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Will the Minister of ATOMIC ENERGY be pleased to state:

(a) whether the Nuclear Corporation of India has developed some seeds of higher productivity;

(b) if so, the names of such seeds and their superiority over otherwise developed seeds with regard to producti- vity, disease and pest resistance drought resistance;

(c) whether they have been tested in different kinds of soils and agro climatic zone; and

(d) if so, the details thereof?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF SMALL SCALE INDUSTRIES (SHRI M. VEERAPPA MOILY) MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PUBLIC GRIEVANCES AND PENSIONS, MINISTER OF STATE IN THE MINISTRY OF PLANNING AND MINIS OF STATE IN THE DEPARTMENTS OF ATOMIC ENERGY AND SPACE (SHRIMATI VASUNDHARA RAJE)

(a) The Nuclear Corporation of India has not developed any higher productivity seeds.However, the Bhabha Atomic Research Centre (BARC) has developed improved/higher productivity seeds.

(b), (c) & (d) The BARC has developed 22 improved crop varieties using radiation induced mutation breeding approach.The different crops are black gram, green gram, tur, groundnut, mustard, rice and jute.

The names of the different varieties, their yield data or productivity as compared to the available local best grown varieties are indicated in the accompanying table.
Some of the mutants produced by BARCare very popular amongst farmers. As per the statistics, Trombay Groundnut variety accounts for about 30% of total national breeder seed indent. Trombay Blackgram variety accounts for 44% of total national breeder seed indent. In Maharashtra alone this Blackgram variety has covered 95% of the area under Blackgram cultivation.It is also spreading to the adjacent areas of Andhra Pradesh and Karnataka. Further work to develop disease resistance and for high yielding crop varieties is a continuous process at BARC.

BARC CROP VARIETIES RELEASED AND NOTIFIED FOR CULTIVATION

Crop	Name	Year of Release & Yield increase (YI)	Maturity (M) Yield (Y)	Area and sources of seeds
BLACKGRAM	TAU-1	1995	M:70-75 Days Y:800-1000 kg/ha YI:24%	Maharashtra, Karnataka, Maharashtra State Seed Corporation (MSSC), Akola
	TAU-2	1992	M:70 Days Y:900-1000 kg/ha YI:18%	Maharashtra, MSSC, Akola
	TPU-4	1992	M:70-75 Days Y:900-1000 kg/ha YI:22%	Maharashtra, Madhya Pradesh, MSSC, Akola

	TU-94-2	1999	M:70 Days Y:900-1000 kg/ha YI:19-37%	Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, BARC, Mumbai
GREENGRAM	TAP-7	1983	M:60ays Y:700-800 kg/ha YI:23%	Maharashtra, Karnataka, MSSC, Akola
	TARM-2	1992	M:(Rabi 90 Days) Y:1000-1100 kg/ha YI:80%	Maharashtra, MSSC, Akola
	TARM-1	1995	M:80 Days Y:765 kg/ha YI:45%	Maharashtra, Gujarat, Madhya Pradesh, Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, Orissa, BARC, Mumbai
	TARM-18	1995	M:65-70 Days Y:1051 kg/ha	Maharashtra, BARC, Mumbai
PIGEONPEA (Arhar)	TT-6 (Trombay-Vishaka-1)	1983	M:135-140 Days Y:1200-1300 kg/ha YI:15%	Madhya Pradesh, Maharashtra Gujarat, Andhra Pradesh, Karnataka, Kerala, MSSC, Akola
	TAT-10	1985	M:110-115 Days Y:900-1000 kg/ha	Maharashtra, MSSC, Akola
GROUNDNUT	TG-1	1973	M:130-135 Days Y:2400-2500 kg/ha YI:15-20%	Maharashtra, Gujarat, BARC, Mumbai
	TG-17	1985	M:115-120 Days Y:1700-2000 kg/ha YI:15-20%	Maharashtra, BARC, Mumbai
	TG-3	1987	M:110 Days Y:2000-2500 kg/ha	Kerala, BARC, Mumbai
	TGS-1	1989	M:110-125 Days Y:Kharif 2000 kg/ha YI:23%	Gujarat, Gujarat Agricultural University (GAU), Junagadh
	TAG-24	1991	M:Kharif:100-105 Days Summer:112-117 Days Y: Kharif:1300 kg/ha Summer:2500 kg/ha YI:Kharif: 24% Summer :50%	Maharashtra, W. Bengal, MSSC, Akola
	TG-22	1992	M:Kharif:115-120 Days	Bihar

			Y:Kharif:1677 kg/ha YI:30%	Bihar Agricultural University (BAU), Ranchi
	TKG-19A	1994	M:120-125 Days Y:(Sum):2000-2500 kg/ha YI:12-13%	Maharashtra, Konkan Krishi Vidyapeeth (KKV), Dapoli, BARC, Mumbai
	TG-26	1995	M:110-120 Days Y:(Summer) 2500 kg/ha YI:23-39%	Gujarat, Maharashtra, Madhya Pradesh, BARC, Mumbai
MUSTARD (Black seed)	TM-2	1987	M:90 Days Y:1370 kg/ha YI:25%	Assam, BARC, Mumbai
(Yellow seed)	TM-4	1987	M:95 Days Y:1470 kg/ha YI:35%	Assam, BARC, Mumbai
RICE	Hari	1988	M:135-140 Days Y:6000 kg/ha YI:20%	Andhra Pradesh, BARC, Mumbai, Andhra Pradesh State Seed Development Corpn. Ltd. (APPSDCL)
JUTE (Mahadev)	TKG-40	1983	M:125-130 Days Y:2800-3100 kg/ha YI:10-13%	Orissa, BARC, Mumbai